

**UNITED STATES AIR FORCE
SCHOOL OF AEROSPACE MEDICINE**

**Publications and Presentations
of the Ophthalmology Branch,
USAF School of Aerospace Medicine
1960-1970**

Thomas J. Tredici

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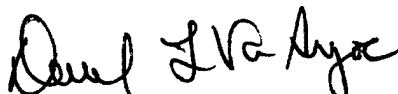
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PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE

OPHTHALMOLOGY BRANCH

1960 Publications

1. DIAGNOSTIC HEAD LIGHT FOR OCULAR MUSCLE TESTING
Tredici, T. J.
U.S. Armed Forces Medical Journal, Vol 2, No. 18, Oct 1960.
2. THE INFLUENCE OF KINESTHESIS UPON NEAR HETEROPHORIA
MEASUREMENTS
Morris, F. M.
American Journal of Optometry and Arch. of American Academy of Optometry
Vol 37, No. 7, July 1960.
3. A METHOD OF PHOTOGRAPHING FLUORESCENCE IN CIRCULATING
BLOOD OF THE HUMAN EYE
Novatny, H. K., D. L. Alvis
60-82 Sch of Aviation Medicine Brooks AFB, Tx, Sept 1960.
4. RETINAL VASCULAR REACTIVITY IN PATIENTS WITH DIABETES
MELLITUS AND WITH ATHEROSCLEROSIS
Hickam, J. B., H. O. Sieker
60-37 Sch of Aviation Med. Brooks AFB, Tx, Feb 1960.

OPHTHALMOLOGY BRANCH

1960 Presentations

1. VISUAL ASPECTS OF RADIATION EXPOSURE

Culver, J. F.

Presented at the 67th Annual Convention of the Association of Military Surgeons of the U.S., Wash D.C., Oct 1960.

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE

OPHTHALMOLOGY BRANCH

1961 Publications

1. METHOD FOR PRODUCING WETTABLE SURFACES ON CONTACT LENSES
BY CHEMICAL FORMATION OF INORGANIC FILMS
Erb, Robert A. (The Franklin Institute)
SAM Report 61-42, Mar 1961.
2. DEVELOPMENT OF PHOTOREACTIVE MATERIALS FOR EYE-PROTECTIVE
DEVICES
Fox, Richard E. (The National Cash Register Company)
SAM Report 61-67, Apr 1961.
3. TRANSMITTANCE OF THE VISIBLE SPECTRUM THROUGH THE
COMPONENTS OF THE BOVINE OCULAR MEDIA
Pitts, D. G.
Amer. J. Optom., Vol. 38: 572-586, 1961.
4. VISUAL ASPECTS OF RADIATION EXPOSURE
Culver, J. F.
Military Medicine, Vol 126, No. 9, Sep 61.
5. RECOVERY OF VISUAL DISCRIMINATION AFTER HIGH INTENSITY
FLASHES OF LIGHT
Severin, Sanford L., N. L. Newton, J. F. Culver
SAM Technical Documentary Report 62-16, Dec 1961.
6. ALPHA-CHYMOTRYPSIN IN CATARACT SURGERY (ENZYMATIC
ZONULOYSIS)
Tredici, Thomas J.
Military Medicine, Vol 126, No. 8, Aug 1961.
7. CONTACT LENSES FOR FLYING PERSONNEL (A RATIONALE FOR
CURRENT POLICY)
Culver, J. F.
Aeromedical Digest, Vol XII, No. VII, 1961.
8. PRIMARY DEGENERATION OF THE RETINA (CASE REPORT)
Moore, J. F., J. F. Culver
Aerospace Medicine, Vol 32, No. 9, Sep 61.
9. COSMIC RADIATION
Zellmer, R. W., R. G. Allen, J. F. Culver
Aerospace Medicine, Vol 32, Oct 1961.

1961 Publications (continued)

STUDENT THESES

(Submitted in Partial Fulfillment of the Requirements of the
Advanced Course in Aerospace Medicine – May 1961)

Experimental Work Performed Under the Direction of Lt Col J. F. Culver
And Capt N. L. Newton, Ophthalmology Department
Publications (10 thru 14)

10. THE EFFECTS OF SIMULATED ALTITUDE ON PENETRATING EYE
INJURIES
J. Robert Dille
11. RECOVERY OF VISUAL DISCRIMINATION AFTER HIGH INTENSITY
FLASHES OF LIGHT
Sanford L. Severin
12. RESULTS OF TONOGRAPHY AT A SIMULATED ALTITUDE OF 30,000 FT
James T. Moore
13. AN EVALUATION OF A METHOD FOR STUDYING CORNEAL
TOPOGRAPHY USING PHOTOGRAPHS OF OCULAR CASTS
Clifford L. Mayhew
14. THE EFFECT OF PILOCARPINE MIOSIS ON VISUAL ACUITY UNDER
CONDITIONS OF COCKPIT ILLUMINATION—A POSSIBLE PROTECTION
AGAINST FLASHBLINDNESS
Howard A. Minners
15. RESULTS OF PREFLIGHT AND POSTFLIGHT MEDICAL EXAMINATIONS
Jackson C. B., W. K. Douglas, J. F. Culver
Proceedings of Conference on Results of the First U.S. Manual Suborbital Space
Flight, June 1961.

OPHTHALMOLOGY BRANCH

1961 Presentations

1. PROTECTIVE GLASSES AGAINST ATOMIC FLASH
Culver, James F. A. V. Alder
Presented at the AGARD, NATO Meeting, Lisbon, Portugal, Apr 61.
2. VISUAL ASPECTS OF SPACE FLIGHT
Morris, Floyd M.
Presented at the Annual Meeting of the American Academy of Optometry, Chicago, Illinois, Dec 61.
3. EARLY OCULAR EFFECTS OF HIGH ENERGY PROTON AND ALPHA RADIATION
Culver, J. F., N. L. Newton
Presented at the Aerospace Medical Association Meeting, Apr 61.
4. A NEW APPROACH TO THE STUDY OF FLASH BLINDNESS—USE OF THE ZEISS LIGHT COAGULATOR
Severin, S. L., N. L. Newton, J. F. Culver
Presented at the Mid-Southern Section Association for Research in Ophthalmology, 9-12 Nov 61, Oklahoma City, Okla.
5. COMPLICATIONS ASSOCIATED WITH THE WEARING OF CONTACT LENSES
Morris, Floyd M.
Presented at the South Central Texas Dispensing Opticians Society Meeting, 23 Jul 61, San Antonio, Texas.

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PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
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OPHTHALMOLOGY BRANCH

1962 Publications

1. THE EFFECTS OF SIMULATED ALTITUDE ON PENETRATING EYE INJURIES
Dille, J. R., N. L. Newton, J. F. Culver
FAA Research Div. 62-12, May 62 and Aerospace Med Vol 33, Dec 62.
2. GLAUCOMA SCREENING IN AEROMEDICAL EXAMINATION
Clark, W. B., J. F. Culver
Aerospace Medicine Vol 33, Dec 1962.
3. HIGH SPEED PHOTOGRAPHIC STUDY OF PERFORATING OCULAR INJURY BY THE BB.
Tillett, C. W., H. W. Rose, C. Herget
AJO Vol 54, No. 4, Oct 1962.
4. VISUAL ASPECTS OF SPACE FLIGHT
Morris, F. M.
Am Journal of Optometry and Arch of AAO, Dec 1962.
5. A NEW APPROACH TO THE STUDY OF FLASHBLINDNESS
Severin, S. L., N. L. Newton, J. F. Culver
Archives of Ophth. Vol 67, pp. 578-582, May 1962.
6. A STUDY OF PHOTOSTRESS AND FLASHBLINDNESS
Severin, S. L., N. L. Newton, J. F. Culver
SAM-TDR-62-144, Dec 1962.
7. AN EXPERIMENTAL APPROACH TO FLASHBLINDNESS
Severin, S. L., N. L. Newton, J. F. Culver
Aerospace Med Vol 33, pp. 1191-1205, Oct 1962.
8. ACUTE NARROW-ANGLE GLAUCOMA-A CASE REPORT
Mayhew, C. L., J. F. Culver
Aerospace Medicine Vol 33, pp. 741-742, June 1962.
9. RECOVERY OF VISUAL DISCRIMINATION AFTER HIGH INTENSITY FLASHES OF LIGHT
Severin, S. L.
USAFSAM-TR-62-16, Jan 1962.

1962 Publications (continued)

10. SPACE OPHTHALMOLOGY

Culver, J. F.

XIX Concilium Ophthalmologicum Vol II, 1962.

11. VISUAL ASPECTS OF RADIATION EXPOSURE

Culver, J. F.

Survey of Ophthalmology, Oct 1962.

12. PRODUCTION OF CHORIORETINAL BURNS BY NUCLEAR DETONATIONS
AND TESTS OF PROTECTIVE DEVICES AND PHOTOTROPIC MATERIALS

Allen, R. G., E. O. Richey, J. F. Culver, N. L. Newton, A. V. Alder, R. W. Zellmer
Operation Dominic Proj 4.1, Dec 1962.

13. PROTECTIVE GLASSES AGAINST ATOMIC FLASH

Culver, J. F., A. V. Alder

In Visual Problems in Aviation Medicine the MacMillian Co. N.Y., NY, 1962.

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1962 Presentations

1. OCULAR HAZARDS OF PARTICULATE SPACE RADIATION
Culver, James F., R. W. Zellmer, N. L. Newton
Presented at the AGARD-NATO Aerospace Medical Panel Meeting, Paris, France,
6-10 July 1962.
2. GLAUCOMA SCREENING IN AEROMEDICAL EXAMINATIONS
Clark, William B., J. F. Culver
Presented at the Aerospace Medical Association Meeting, Atlantic City, New
Jersey, 9-12 April 1962.
3. AN EXPERIMENTAL APPROACH TO FLASH BLINDNESS
Severin, Sanford L., N. L. Newton, J. F. Culver
Presented at the Aerospace Medical Association Meeting, Atlantic City, New
Jersey, 9-12 April 1962.
4. THE EFFECTS OF SIMULATED ALTITUDE ON PENETRATING EYE INJURIES
Dille, J. Robert, N. L. Newton, J. F. Culver
Presented at the Aerospace Medical Association Meeting, Atlantic City, New
Jersey, 9-12 April 1962.
5. A SIMPLE METHOD OF CHORIORETINAL BURN PROTECTION
Minners, H. A., N. L. Newton
Presented at the Section on Military Medicine, American Medical Association,
Chicago, Illinois, 26 June 1962.
6. PROTON RADIATION EFFECTS IN PRIMATES
Zellmer, R. W., J. F. Culver, J. E. Pickering
Presented at the Second International Congress of Radiation Research, Harrogate,
England, Aug 1962.
7. SPACE OPHTHALMOLOGY
Culver, James F.
Presented at the XIXth International Congress of Ophthalmology, New Delhi,
India, 3-7 Dec 62.

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1963 Publications

1. OCULAR HYPEROXIA

Beehler, C. C., N. L. Newton, J. F. Culver, T. J. Tredici
Aerospace Medicine Vol 34, No. 11, Nov 1963.

2. NUCLEAR EXPOSURE EFFECTS

Culver, J. F.
The Fight-Saving Review, Spring 1963.

3. AEROMEDICAL EVALUATION FOR SPACE PILOTS - OPHTHALMOLOGY
EVALUATION

Clark, W. B., S. L. Severin, J. F. Culver
USAFSAM, July 1963.

4. INTRAOCULAR PRESSURE AQUEOUS OUTFLOW AND GLAUCOMA AT
ALTITUDE

Newton, N. L., W. B. Clark, J. F. Culver, J. T. Moore
AJO Vol 56, No. 2, Aug 1963.

5. THE AEROMEDICAL PROBLEM OF GLAUCOMA

Culver, J. F., W. B. Clark
Aerospace Medicine Vol 34, No. 11, Sept 63.

6. PHOTOSTRESS AND FLASHBLINDNESS IN AEROSPACE OPERATIONS

Severin, S. L., A. V. Adler, N. L. Newton, J. F. Culver
Aerospace Medicine Vol 34, No. 12, Dec 63.

7. A STUDY OF PHOTOSTRESS AND FLASHBLINDNESS

Severin, S. L., N. L. Newton, J. F. Culver
Amer Journal of Ophth. Vol 56, No. 4, Oct 1963.

8. EARLY OCULAR EFFECTS OF HIGH ENERGY PROTON AND ALPHA
RADIATION

Culver, J. F., N. L. Newton
Ophth Branch Project Paper, Aug 1963.

9. THE PHOTOSTRESS TEST FOR THE EVALUATION OF MACULAR FUNCTION

Severin, S. L., J. Y. Harper, J. F. Culver
SAM-TDR-63-47, June 1963.

1963 Publications (continued)

10. PHOTOSTRESS TEST FOR THE EVALUATION OF MACULAR FUNCTION
Severin, S. L., J. Y. Harper Jr., J. F. Culver
Archives of Ophth, Vol 70, pp. 593-597, Nov 1963.
11. THE PROBLEM OF HETEROTROPIA IN TRAINED PILOTS
Clark, W. B., J. F. Culver
Aerospace Medicine Vol 34, No. 8, Aug 63.
12. PRODUCTION OF CHORIORETINAL BURNS BY NUCLEAR DETONATIONS
AND TESTS OF PROTECTIVE DEVICES
Allen, R. G., E. O. Richey, J. F. Culver, N. L. Newton, A. V. Alder
Operation Dominic Proj 4.1, Feb. 1963.

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1963 Presentations

1. THE AEROMEDICAL PROBLEM OF GLAUCOMA

Culver, James F., W. B. Clark

Presented at the Aerospace Medical Association Meeting, Los Angeles, California, 29 April 1963.

2. OCULAR EFFECTS OF NUCLEAR DETONATIONS

Culver, James F.

Presented at the Nuclear Weapons Medical Symposium, Field Command, DASA, Sandia Base, Albuquerque, New Mexico, 22-26 Apr 1963.

3. THE PROBLEM OF HETEROTROPIA IN TRAINED PILOTS

Clark, William B., J. F. Culver

Presented at the Aerospace Medical Association Meeting, Los Angeles, California, 29 April 1963.

4. PHOTOS AND FLASH BLINDNESS IN AEROSPACE OPERATIONS

Severin, Sanford L., A. V. Alder, N. L. Newton, J. F. Culver

Presented at the Aerospace Medical Association Meeting, Los Angeles, California, 29 April 1963.

5. OCULAR HYPEROXIA

Beehler, C. C., N. L. Newton, J. F. Culver, T. J. Tredici

Presented at the Aerospace Medical Association Meeting, Los Angeles, California, 29 Apr 63.

6. THE AEROMEDICAL PROBLEM OF GLAUCOMA

Culver, James F., W. B. Clark

Presented at the Aerospace Medical Association Meeting, Los Angeles, California, 29 April 1963.

7. CONTACT LENSES IN AVIATION AND SPACE

Morris, Floyd M.

Presented at the AOA Contact Lens Symposium, at Ohio State University, Columbus, Ohio, 3 Feb 1963.

8. THE OPTOMETRIST AS A MEMBER OF THE AIR FORCE MEDICAL SERVICE TEAM

Morris, Floyd M.

Presented at the Florida Optometric Association Meeting, Tampa, Florida, 14 June 1963.

1963 Presentations (continued)

9. CONTACT LENSES FOR FLYING PERSONNEL—A CLINICAL INVESTIGATION
Morris, Floyd M.
Presented at the Second World Contact Lens Congress, Chicago, Illinois, 4-7 Aug 1963.
10. VISUAL ASPECTS OF THE PHYSICAL EXAMINATION FOR FLYING (VISUAL REQUIREMENTS FOR FLYING)
Morris, Floyd M.
Presented at the 66th annual meeting of the American Optometric Association, Minneapolis, Minnesota, 20 July 1963.
11. RETINAL DETACHMENT IN ANIMALS RESULTING FROM OXYGEN TOXICITY
Beehler, Cecil C.; N. L. Newton, J. F. Culver, T. J. Tredici
Presented at the Fifth International Symposium on Space Technology and Science covering Space Medicine, Tokyo, Japan, 2-7 Sep 63.
12. CHORIORETINAL BURN PROBLEM
Culver, James F.
Presented at the ACLANT Medical Officer's Symposium, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Maryland, 29-30 Oct 1963.
13. CHORIORETINAL BURNS AND PROTECTIVE DEVICES
Allen, Ralph G., J. F. Culver, E. O. Richey
Presented at Operation Fish Bowl Symposium, 5-7 November 1963, Chicago, Illinois (SRD).
14. FLASHBLINDNESS AND PROTECTIVE DEVICES
Alder, Albert V.
Presented at the Medical Aspects of Advanced Warfare Course (Instructional Course), Gunter AFB, Alabama, 4 November 1963.

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OPHTHALMOLOGY BRANCH

1964 Publications

1. CONTACT LENSES FOR FLYING PERSONNEL-A CLINICAL INVESTIGATION
Morris, F. M.
Contacto 8(1), Mar 1964.
2. SPACE OPHTHALMOLOGY PROBLEMS
Clark, W. B., J. F. Culver
Proceedings of the 3rd International Symposium on Bioastronautics and the
Exploration of Space, Nov 1964.
3. VISUAL RECOVERY FROM BRIEF EXPOSURE TO VERY HIGH LUMINANCE
LEVELS
Fry, G. A., N. D. Miller
SAM Technical Doc. Rpt. 64-36, Task (630103), Aug 1964.
4. RETINAL DETACHMENT IN ADULT DOGS RESULTING FROM OXYGEN
TOXICITY
Beehler, C. C., N. L. Newton, J. F. Culver, T. J. Tredici
Archives of Ophthalmology, Vol 71: 665-670, May 1964.
5. HUMAN CHORIORETINAL BURNS FOLLOWING HIGH ALTITUDE NUCLEAR
DETONATIONS
Culver, J. F., N. L. Newton, R. Penner, R. W. Neidlinger
Aerospace Medicine, Vol 35, No. 12, Dec 1964.
6. THE VANISHING DISQUALIFICATION (CORNEAL ENDOTHELIAL
DYSTROPHY)
Howard, J. L., J. F. Culver
Aerospace Medicine, Vol 35, No. 8, Aug 1964.
7. A SIMPLE METHOD OF CHORIORETINAL BURN PROTECTION
Minners, H. A., N. L. Newton
Aerospace Medicine, Vol 35, No. 7, July 1964.
8. HEMATOMA BENEATH THE RETINAL PIGMENT EPITHELIUM
Tredici, T. J., R. H. Fenton
Archives of Ophth, Vol 72, pp.796-799, Dec 1964.
9. HEMATOMA BENEATH THE RETINAL PIGMENT EPITHELIUM
Tredici, T. J.
In System of Ophthalmology edited by Sir Stewart Duke-Elder, Henry Kimpton,
Vol IX, London, 1964.

1964 Publications (continued)

10. MILITARY ASPECTS OF SATELLITE-TO-EARTH VISIBILITY
Clark, W. B., F. M. Morris, J. F. Culver
Lectures in Aerospace Medicine, USAFSAM, Brooks AFB, TX, Feb 1964.
11. OXYGEN AND THE EYE
Bechle, C. C.
Review 3-64, USAFSAM, Brooks AFB, TX, Feb 1964.
12. VISUAL REQUIREMENTS FOR FLYING
Jampalsky A, A. Morris, W. L. Erdbrink, R. Feinberg, D. G. Pitts
Report of Working Group #20, NRC-Armed Force Comm on Vision, June 1964.
13. NUCLEAR WEAPONS OPTICAL INFRA-RED PHENOMENA AND THEIR EFFECTS ON AIR FORCE SYSTEMS
Richey, E. O.
AFSC Manual 500, July 1964.
14. HYPERTROPHIC CORNEAL SCARS (KELOIDS)
Tredici, T. J.
Survey of Ophthalmology, Vol 9, No. 6, Dec 1964.
15. THE POSITIVE AFTER-IMAGE AND MEASUREMENTS OF LIGHT AND DARK ADAPTATION
Fry, Glenn A.
Final Report on Contract AF33 (657)-9615, Ohio State Univ. Columbus, Ohio, 31 Oct 1964.
16. RESEARCH ON TRIPLET STATES AND PHOTOCHROMISM
Windsor, M. W., D. Weber
Final Report on Contract AF41 (609)-1457 Space Technology Lab, Redondo Beach, CA, Jan 1964.
17. INTRAOCULAR PRESSURE, AQUEOUS OUTFLOW, AND GLAUCOMA AT ALTITUDE
Newton, N. L., W. B. Clark, J. T. Moore, J. F. Culver
Sight Savings Review (Abstract), 1964.
18. VISUAL RECOVERY FROM BRIEF EXPOSURES TO VERY HIGH LUMINANCE LEVELS
Fry, G. A., N. D. Miller
Contract AF33 (657-9229), Ohio State Univ Res. Foundation, Columbus, Ohio, Aug 1964.

OPHTHALMOLOGY BRANCH

1964 Presentations

1. NUCLEAR WEAPONS EFFECTS RESEARCH PROGRAM FOR FY 1966 OF THE OCULO-THERMAL SECTION, OPHTHALMOLOGY BRANCH
Loper, L. R.
Presentation at the Air Force Weapons Laboratory, Kirtland AFB, New Mexico, March 1964 – Task 630103.
2. OCCUPATIONAL VISION IN THE AIR FORCE AND THE ROLE OF THE OPTOMETRIST IN THE AIR FORCE
Kislin, Benjamin
Presented at the annual convention of the Oklahoma Optometric Association, 2-5 May 1964 – Task 775505.
3. VISUAL PROBLEMS ASSOCIATED WITH AEROSPACE FLIGHT
Morris, Floyd M.
Presented at the annual convention of the Oklahoma Optometric Association, 2-5 May 1964 – Task 775505.
4. HUMAN CHORIORETINAL BURNS FOLLOWING HIGH ALTITUDE NUCLEAR DETONATIONS
Culver, James F., N. L. Newton, Robert Penner, R. W. Neidlinger
Presented at the 35th annual scientific meeting of the Aerospace Medical Association, 14 May 1964, Bal Harbour, Florida – Task 630103.
5. EYE PROTECTION IN THE AIR FORCE
Kislin, Benjamin
Presented at the American Optometric Association Congress, New York, New York, 28 June-3 July 1964, Task 630103.
6. OPERATION DOMINIC (DOCUMENTARY FILM)
Richey, Everett O. (Co-Editor on script for technical accuracy)
Cook Electric Company, Martin Grove, Illinois, August 1964 – Task 630103.
7. SPACE OPHTHALMOLOGICAL PROBLEMS
Clark, William B., J. F. Culver
Presented at the Third International Symposium on Bioastronautics and the Exploration of Space, 16-18 Nov 64, San Antonio, Texas – Task 775505.
8. THE "SCOTIC RESPONSE" IN THE CAT
Pitts, Donald G.
Presented at the annual meeting of the American Academy of Optometry, 12-15 Dec 64, Columbus, Ohio – Task 775505.

1964 Presentations (continued)

9. A HISTORICAL REVIEW OF THE OCULOMOTOR COMPLEX

Pitts, D. G.

Presented at the annual meeting of the American Academy of Optometry, 12-15 Dec 64, Columbus, Ohio – Task 775505.

10. EFFECT OF OBSERVER ELEVATION ON THE MOON ILLUSION

Hamilton, James F.

Presented at the annual meeting of the American Academy of Optometry, 12-15 Dec 64, Columbus, Ohio.

11. FLASH BLINDNESS PROTECTION (CLOSED CIRCUIT TELEVISION)

Richey, Everett O.

Formal comments on closed circuit television, Wright-Patterson AFB, Ohio, December 1964.

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE

OPHTHALMOLOGY BRANCH

1965 Publications

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Monitor: Thomas J. Tredici, Lt Colonel, USAF, MC
Work Unit 7755090 6

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